

Applicants: Ron S. Israeli et al.
Serial No.: 08/481,916
Filed: June 7, 1995

Pending Claims 62-70 and 76

62. A purified prostate specific membrane antigen polypeptide comprising an antigenic fragment of prostate specific membrane antigen, which fragment has within its structure consecutive amino acids having the sequence Asp-Glu-Leu-Lys-Ala-Glu (SEQ ID NO: 35) and additional consecutive amino acids, provided that the sequence of the polypeptide is included within SEQ ID NO:2.
63. A purified prostate specific membrane antigen polypeptide comprising an antigenic fragment of prostate specific membrane antigen, which fragment has within its structure consecutive amino acids having the sequence Asn-Glu-Asp-Gly-Asn-Glu (SEQ ID NO: 36).
64. A purified prostate specific membrane antigen polypeptide comprising an antigenic fragment of prostate specific membrane antigen, which fragment has within its structure consecutive amino acids having the sequence Lys-Ser-Pro-Asp-Glu-Gly (SEQ ID NO: 37).
65. A purified prostate specific membrane antigen polypeptide comprising an antigenic fragment of prostate specific membrane antigen, which fragment has within its structure consecutive amino acids having the sequence Ala-Gly-Ala-Leu-Val-Leu-Ala-Gly-Gly-Phe-Phe-Leu-Leu-Gly-Phe-Leu-Phe (SEQ ID NO:38).

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66. A purified prostate specific membrane antigen polypeptide comprising an antigenic fragment of prostate specific membrane antigen, which fragment has within its structure consecutive amino acids having the following sequences:

- (a) Asp-Glu-Leu-Lys-Ala-Glu (SEQ ID NO: 35);
- (b) Asn-Glu-Asp-Gly-Asn-Glu (SEQ ID NO: 36); and
- (c) Lys-Ser-Pro-Asp-Glu-Gly (SEQ ID NO: 37).

67. A purified prostate specific membrane antigen polypeptide comprising an antigenic fragment of prostate specific membrane antigen, which fragment has within its structure consecutive amino acids having the following sequences:

- (a) Asp-Glu-Leu-Lys-Ala-Glu (SEQ ID NO: 35);
- (b) Asn-Glu-Asp-Gly-Asn-Glu (SEQ ID NO: 36);
- (c) Lys-Ser-Pro-Asp-Glu-Gly (SEQ ID NO: 37); and
- (d) Ala-Gly-Ala-Leu-Val-Leu-Ala-Gly-Gly-Phe-Phe-Leu-Leu-Gly-Phe-Leu-Phe (SEQ ID NO:38).

68. A purified antigenic prostate specific membrane antigen polypeptide having within its structure consecutive amino acids having the sequence set forth in SEQ ID NO: 2.

69. A purified antigenic prostate specific membrane antigen polypeptide consisting of consecutive amino acids, the sequence of which is within the sequence of the outside region of prostate specific membrane antigen, the sequence of which antigen is set forth in SEQ ID NO:2, provided that if the polypeptide comprises consecutive amino acids having

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the sequence set forth in SEQ ID NO:35, the polypeptide further comprises additional amino acids.

70. A purified prostate specific membrane antigen polypeptide comprising an antigenic fragment of prostate specific membrane antigen, which fragment has a sequence which is the same as a sequence within the outside region of prostate specific membrane antigen, the sequence of which antigen is set forth in SEQ ID NO:2, and the sequence of which polypeptide comprises, within its structure, consecutive amino acids having a sequence selected from the group consisting of:

- (a) Asn-Glu-Asp-Gly-Asn-Glu (SEQ ID NO:36);
- (b) Lys-Ser-Pro-Asp-Glu-Gly (SEQ ID NO:37); and
- (c) Ala-Gly-Ala-Leu-Val-Leu-Ala-Gly-Gly-Phe-Phe-Leu-Leu-Gly-Phe-Leu-Phe (SEQ ID NO:38)

provided that if the polypeptide comprises consecutive amino acids having the sequence set forth in SEQ ID NO:35, the polypeptide further comprises additional amino acids.

76. A purified prostate specific membrane antigen polypeptide comprising an antigenic fragment of prostate specific membrane antigen, which fragment has a sequence which is the same as a sequence within the outside region of prostate specific membrane antigen, the sequence of which antigen is set forth in SEQ ID NO:2, wherein the antigenic fragment generates as an immunogen antibodies specific to PSM antigen, provided that if the polypeptide comprises

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consecutive amino acids having the sequence set forth in
SEQ ID NO:35, the polypeptide further comprises additional
amino acids.